## Chapter 3 Narrative Scenarios

FACTOR
Total Population
Population Density
Population Distribution
Commercial Activity
Commercial Activity Mix
Total Industrial Activity
Industrial Activity Mix
Total Crop Area
Crop Unit Water Use
Environmental Water-Flow Based
Environmental Water-Land Based
Naturally Occurring Conservation
Urban Water Use Efficiency
Ag Water Use Efficiency

SCENARIO 1	SCENARIO 2	SCENARIO 3			
CURRENT TRENDS	RESOURCE SUSTAINABILITY	RESOURCE INTENSIVE			
DOF	DOF	Higher than DOF			
DOF	Higher than DOF	Lower than DOF			
DOF	DOF	Higher Inland & Southern			
БОІ	ВОІ	Lower Coastal & Northern			
Current Trend	Increase in Trend	Increase in Trend (as in 2)			
Current Trend	Decrease in High Water Using Activities	Increase in High Water Using Activities			
Current Trend	Increase in Trend	Increase in Trend (as in 2)			
Current Trend	Decrease in High Water Using Activities	Increase in High Water Using Activities			
Current Trend	Level Out at Current Crop Area	Level Out at Current Crop Area			
Current Trend	Decrease in Crop Unit Water Use	Increase in Crop Unit Water Use			
Current Trend	High Environmental Protection High Environmental Protection				
Current Trend	High Environmental Protection High Environmental Protectio				
NOC Trend in MOUs	Higher than NOC Trend in MOUs	Lower than NOC Trend in MOUs			
All Cost Effective BMPs in Existing MOUs Implemented by Current Signatories (present commitments)					
All Cost Effective BMPs in Existing MOUs Implemented by Current Signatories (present commitments)					

## **Quantified Narrative Scenarios**

		SCENARIO 1	SCENARIO 2	SCENARIO 3	
FACTOR	INITIAL CONDITIONS	CURRENT TRENDS	RESOURCE SUSTAINABILITY	RESOURCE INTENSIVE	NOTES
	(2000)	(2030)	(2030)	(2030)	
Total Population	34.1 million	48.1 million	48.1 million	52.3 million*	* Previous DOF forecast
Population Density	36% MF housing	36% MF housing	46% MF housing	31% MF housing	
Persons per Household (SF / MF)	3.13 (SF) / 2.41 (MF)	3.13 (SF) / 2.41 (MF)	3.13 (SF) / 2.41 (MF)	3.13 (SF) / 2.41 (MF)	
Population Inland & Southern*	25.8 million	37.3 million	37.3 million	41.1 million (+25% growth rate)	Inland & Southern: SR, SJ, TL, CC, CR, SL
Distribution Coastal & Northern*	8.3 million	10.8 million	10.8 million	11.2 million (+16% growth rate)	Northern & Coast: NC, SF, CC, NL
Commercial Activity	2000 Employees	2030 Employees	2030 Employees	2030 Employees	Awaiting Data
Commercial Activity Mix	2000 Activity Mix	To be implemented	To be implemented	To be implemented	Effects in per unit water use
Total Industrial Activity	2000 Employees	2030 Employees	2030 Employees	2030 Employees	Awaiting Data
Industrial Activity Mix	2000 Activity Mix	To be implemented	To be implemented	To be implemented	Effects in per unit water use
Total Crop Area (Irrigated - ICA)	9.5 Mil Acres	8.5 Mil Acres (-10.4%)	9.5 Mil Acres	9.5 Mil Acres	
Irrigated Land Area (ILA)	9.0 Mil Acres	7.7 Mil Ac (-13.6%)	8.4 Mil Ac (-6.9%)	7.7 Mil Ac (-13.6%)	
Multi-cropped Area (MA/ILA)	6%	10%	14%	23%	MA/ILA set to satisfy ICA & ILA
Crop Unit Water Use	2000 Level	Included in Irrigation Applied Water	Included in Irrigation Applied Water	Included in Irrigation Applied Water	
Environmental Water-Flow Based	2000 Env. Demand	+ 100% ED	+ 150% ED	+ 100% ED	ED: Environemental Defense Estimates
Environmental Water-Land Based	2000 Env. Demand	+ 100% ED	+ 100% ED	+ 100% ED	(December 2003)
Naturally Occurring Conservation	2000 Level	Included in Per Unit Water Use	Included in Per Unit Water Use	Included in Per Unit Water Use	
Urban Water Use Efficiency	2000 Level				
Ag Water Use Efficiency	2000 Level	Included in Irrigation Applied Water (below)			
Domestic Per Unit Water Use	2000 WUC	- 10%	- 20%	- 5%	
Commercial Per Unit Water Use	2000 WUC	- 10%	- 20%	- 5%	WUC = Water use coefficient
Industrial Per Unit Water Use	2000 WUC	- 10%	- 20%	- 5%	
Irrigation Applied Water	2000 AW	- 5%	- 10%	2000 AW	AW = Applied Water